



<http://www.mn-arts.org/>

## ***April 2017 Edition***

### **April Meeting Minutes**

Russ Ramirez, K0WFS, called the meeting to order at 1:00 PM. 20 were in attendance.

Introductions made around the table.

Meeting minutes from February 2017 were approved.

Paul Bushouse, N0TYE, reports that there is \$2275.92 in the checking account.

### **Old Business:**

- No old business

### **New Business:**

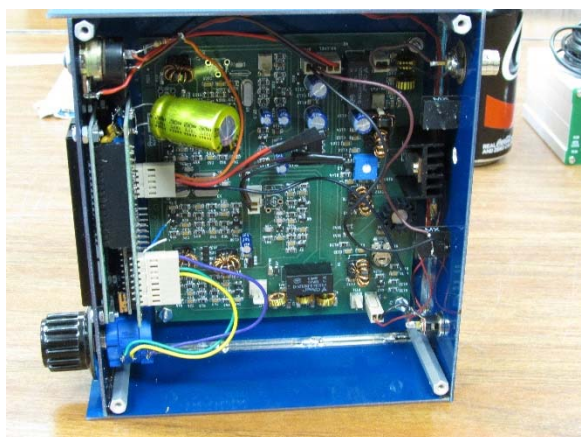
- There was a board meeting earlier in the day.
- It was suggested that a donation be made to the ARRL Technical group of \$100 & \$200. This was approved by the group.
- Presentations were discussed along with the need to advertise them. The use of an open forum was also considered. The group was asked to consider who would be willing to do a presentation.

- Ways to advertise the club was discussed.
- Russ Ramirez discussed the general direction of the club and would like to do a survey.
- The Maker Fair and participation in it in June was considered.
- Chuck Stroud, KA8HDE, offered to spearhead Field Day activities this year.

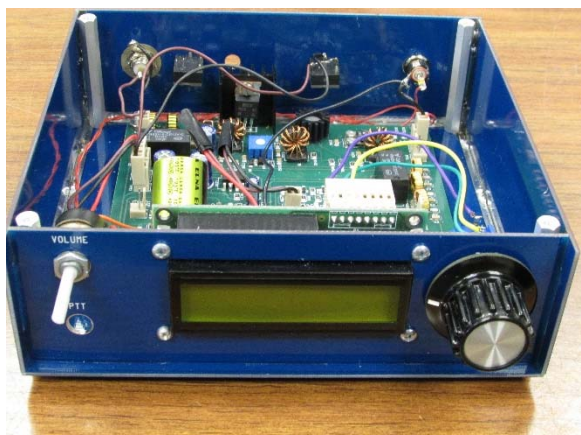
### **Show & Tell**

**Craig Johnson, AA0ZZ**, brought in his BitX-40 which he recently completed along with a custom enclosure made from PCB. Craig substituted a 15 turn pot for the 10K supplied with the kit for tuning. He also discussed a problem of a tick in the VFO and how to address this.

Additionally, Craig brought in an older SST transceiver for which he found a kit to build. He described its functionality.



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**Steve Ulrich**, NW0C, also brought in a BitX-40 he recently completed. He also brought in a GPS disciplined clock he recently obtained. It provides a 10 MHz reference along with a 1 PPS output.







**Dave Kent, W0RU**, showed us a new medical device he is using to automatically deliver medicine. He reports that it has helped with his Parkinson's and that the device is from a local company.



**Bede Willenbring, WA0QNV**, brought in a scope for anyone that might need it. He also brought in a voltage reference source which charges via USB. It provides several voltage outputs and can be used to check/calibrate your voltmeter.



**John Krawczak, KJ0P**, brought in a pair of pliers he has found useful in preparing coax. He also brought in a Palm keyer he recently acquired along with his completed VNA kit from last month's Build-a-Thon.



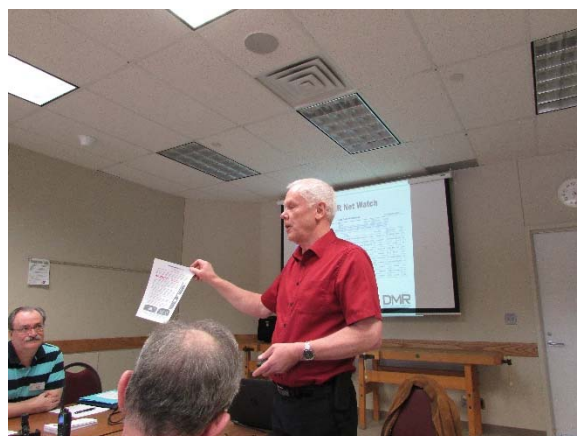


**Mike Burk**, KD0JXE, brought in a signal generator and DVM for anyone that could use them. He also showed us an interesting light ring he aquired for doing macro photography. It is controlled by an Aduino and the color temperature can be adjusted via the Arduino control.



## April Presentation

**Trygve Svard**, KD0PNQ, spoke on DMR/Digital Mobile Radio. This is a standard defined by the European Telecommunications. It uses TDMA and two channels of 12.5 KHz. Trygve gave a detailed explanation of how the system works and how it is configured here in the Twin Cities. He detailed how Time slots 1 & 2 are used as well as the Talk Groups. He explained how to get a digital code for your radio and what is required from a software standpoint to set it up. Great Presentation!!



Respectfully submitted,  
Steve, NW0C

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**Club Officers:**

<i>President:</i>	<i>Russ Ramirez/K0WFS</i>	<i><u><a href="mailto:russ.ramirez@gmail.com">russ.ramirez@gmail.com</a></u></i>
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